

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10587371
Filing Date	2006-07-26
First Named Inventor	Ho Sung CHO
Art Unit	1647
Examiner Name	Shulamith H. SHAFER
Attorney Docket Number	AMBX-0028.00US

U.S.PATENTS							Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
	1						

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S.PATENT APPLICATION PUBLICATIONS							Remove
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
	1	20030228274		2003-12-11	ROSE		

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

FOREIGN PATENT DOCUMENTS								Remove
Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button.

Add

NON-PATENT LITERATURE DOCUMENTS				Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>	

**ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.S./**  
**INFORMATION DISCLOSURE**  
**STATEMENT BY APPLICANT**  
 ( Not for submission under 37 CFR 1.99)

Application Number	10587371
Filing Date	2006-07-26
First Named Inventor	Ho Sung CHO
Art Unit	1647
Examiner Name	Shulamith H. SHAFER
Attorney Docket Number	AMBX-0028.00US

1	LIU, H. et al. "A Method for the Generation of Glycoprotein Mimetics," J. Am. Chem. Soc. 2003 125(7): 1702-1703	<input type="checkbox"/>
2	LIU, D.R. & Schultz, P.G. "Progress toward the evolution of an organism with an expanded genetic code," Proc Natl Acad Sci U S A. 1999 Apr 27;96(9):4780-5	<input type="checkbox"/>
3	LORIMER, I. A. et I. Pastan, "Random recombination of antibody single chain Fv sequences after fragmentation with DNaseI in the presence of Mn2+," Nucleic Acids Res. 1995 Aug 11;23(15):3067-8	<input type="checkbox"/>
4	LU, T. et al. "Probing ion permeation and gating in a K +channel with backbone mutations in the selectivity filter," Nature Neurosci. 2001 Mar;4(3):239 - 246	<input type="checkbox"/>
5	LUCKOW, VA and MD Summers, "High level expression of nonfused foreign genes with Autographa californica nuclear polyhedrosis virus expression vectors," Virology. 1989 May;170(1):31-9	<input type="checkbox"/>
6	MA, C et al., "In vitro protein engineering using synthetic tRNA(Ala) with different anticodons," Biochemistry. 1993 Aug 10;32(31):7939-45	<input type="checkbox"/>
7	MAGLIERY, TJ et al. "Expanding the Genetic Code: Selection of Efficient Suppressors of Four-base Codons and Identification of "Shifty" Four-base Codons with a Library Approach in Escherichia coli," J Mol Biol. 2001 Mar 30;307(3):755-69	<input type="checkbox"/>
8	MAHAL, L. K., et al., "Engineering chemical reactivity on cell surfaces through oligosaccharide biosynthesis," Science. 1997 May 16;276(5315):1125-8	<input type="checkbox"/>
5	MAKRIDES, SC et al., "Extended in vivo half-life of human soluble complement receptor type 1 fused to a serum albumin-binding receptor," J Pharmacol Exp Ther. 1996 Apr;277(1):534-42	<input type="checkbox"/>
10	MAMOT, C, et al., "Epidermal growth factor receptor (EGFR)-targeted immunoliposomes mediate specific and efficient drug delivery to EGFR- and EGFRvIII-overexpressing tumor cells," Cancer Res. 2003 Jun 15;63(12):3154-61	<input type="checkbox"/>
11	MANDECKI, W. "Oligonucleotide-directed double-strand break repair in plasmids of Escherichia coli: a method for site-specific mutagenesis," Proc Natl Acad Sci U S A. 1986 Oct;83(19):7177-81	<input type="checkbox"/>

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.S./

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10567371
Filing Date		2006-07-26
First Named Inventor	Ho Sung CHO	
Art Unit	1647	
Examiner Name	Shulamith H. SHAFER	
Attorney Docket Number	AMBX-0028.00US	

12	MANN, SG and LA King, "Efficient transfection of insect cells with baculovirus DNA using electroporation," J Gen Virol. 1989 Dec;70 (Pt 12):3501-5	<input type="checkbox"/>
13	MATSOUKAS, JM et al., "Differences in backbone structure between angiotensin II agonists and type I antagonists," J Med Chem. 1995 Nov 10;38(23):4660-9	<input type="checkbox"/>
14	MCMINN, DL et al., "Efforts toward Expansion of the Genetic Alphabet: DNA Polymerase Recognition of a Highly Stable, Self-Pairing Hydrophobic Base," J. Am. Chem. Soc. 1999; 121(49):11585-6	<input type="checkbox"/>
15	MEGGERS, E et al., "A Novel Copper-Mediated DNA Base Pair," J. Am. Chem. Soc. 2000; 122(43):10714-10715	<input type="checkbox"/>
16	MEHVAR, R., "Modulation of the pharmacokinetics and pharmacodynamics of proteins by polyethylene glycol conjugation" J Pharm Pharm Sci. 2000 Jan-Apr;3(1):125-36	<input type="checkbox"/>
17	MENDEL, D, et al. "Site-directed mutagenesis with an expanded genetic code," Annu Rev Biophys Biomol Struct. 1995;24:435-62	<input type="checkbox"/>
18	MILLER, LK, "Baculoviruses as gene expression vectors," ANN. REV. MICROBIOL. 1988; 42:177-99	<input type="checkbox"/>
19	MILLER, LK. "Insect baculoviruses: powerful gene expression vectors," Bioessays. 1989 Oct;11(4):91-5	<input type="checkbox"/>
20	MILLER, JC et al. "Flash decaging of tyrosine sidechains in an ion channel," Neuron. 1998 Apr;20(4):619-24	<input type="checkbox"/>
21	MINKS, C. et al., Noninvasive tracing of recombinant proteins with "fluorophenylalanine-fingers," Anal Biochem. 2000 Aug 15;284(1):29-34	<input type="checkbox"/>
22	MIYANOHARA, A et al., "Expression of hepatitis B surface antigen gene in yeast," Proc Natl Acad Sci U S A. 1983 Jan;80(1):1-5	<input type="checkbox"/>

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.S./

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10587371
Filing Date	2006-07-26
First Named Inventor	Ho Sung CHO
Art Unit	1647
Examiner Name	Shulamith H. SHAFER
Attorney Docket Number	AMBX-0028.00US

23	MOORE, B. et al., "Quadruplet codons: implications for code expansion and the specification of translation step size," J. Mol. Biol. 2000; 298(2):195-209	<input type="checkbox"/>
24	MOSBACH, K. et al., "Formation of proinsulin by immobilized Bacillus subtilis," Nature 1983 Apr; 302:543-545	<input type="checkbox"/>
25	NAKAMAYE, KL & Eckstein F, "Inhibition of restriction endonuclease Nci I cleavage by phosphorothioate groups and its application to oligonucleotide-directed mutagenesis" Nucleic Acids Res. 1986 Dec 22;14(24):9679-98	<input type="checkbox"/>
26	NAKATSUKA, T., et al. "Peptide segment coupling catalyzed by the semisynthetic enzyme thiosubtilisin," J Am Chem Soc, 1987; 109(12): 3808-3810	<input type="checkbox"/>
27	NAMBIAR, KP et al., "Total synthesis and cloning of a gene coding for the ribonuclease S protein," Science (1984) 223: 1299-1301	<input type="checkbox"/>
28	NEEDLEMAN, SB and Wunsch CD, "A general method applicable to the search for similarities in the amino acid sequence of two proteins," J Mol Biol. 1970 Mar;48(3):443-53	<input type="checkbox"/>
29	NEET, KE et al. "Properties of thiol-subtilisin. The consequences of converting the active serine residue to cysteine in a serine protease," J Biol Chem. 1968 Dec 25;243(24):6392-401	<input type="checkbox"/>
30	NIELSEN, UB, et al., "Therapeutic efficacy of anti-ErbB2 immunoliposomes targeted by a phage antibody selected for cellular endocytosis," Biochim Biophys Acta. 2002 Aug 19;1591(1-3):109-118	<input type="checkbox"/>
31	NOMURA, T. et al., "Purification, cDNA Cloning, and Expression of UDP-Gal: Glucosylceramide -1,4-Galactosyltransferase from Rat Brain," J. BIOL. CHEM. 1998; 273(22):13570-7	<input type="checkbox"/>
32	NOREN, CJ et al. "A general method for site-specific incorporation of unnatural amino acids into proteins," Science. 1989 Apr 14;244(4901):182-8	<input type="checkbox"/>
33	NOWAK, MW et al., "Nicotinic receptor binding site probed with unnatural amino acid incorporation in intact cells," Science. 1995 Apr 21;268(5209):439-42	<input type="checkbox"/>

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.S./

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		10547371
Filing Date		2006-07-26
First Named Inventor	Ho Sung CHO	
Art Unit	1647	
Examiner Name	Shulamith H. SHAFER	
Attorney Docket Number	AMBX-0028.00US	

33	OGAWA, AK et al., "Efforts toward the Expansion of the Genetic Alphabet: Information Storage and Replication with Unnatural Hydrophobic Base Pairs," J. Am. Chem. Soc. 2000; 122(14):3274-3287	<input type="checkbox"/>
35	OGAWA, AK et al., "Rational Design of an Unnatural Base Pair with Increased Kinetic Selectivity," J. Am. Chem. Soc. 2000; 122(36); 8803-8804	<input type="checkbox"/>
36	OHTSUKA, E et al., "An alternative approach to deoxyoligonucleotides as hybridization probes by insertion of deoxyinosine at ambiguous codon positions," J Biol Chem. 1985 Mar 10;260(5):2605-8	<input type="checkbox"/>
37	OLSON et al. "Preparation and Characterization of Poly(ethylene glycol)yated Human Growth Hormone Antagonist," in Poly(ethylene glycol) Chemistry & Biological Applications, 1997; Eds. JM Harris & S. Zalipsky; ACS, Washington, D.C., 170-181	<input type="checkbox"/>
38	PADWA, A. "Intermolecular 1,3-Dipolar Cycloadditions," in Comprehensive Organic Synthesis, Vol. 4, (1991) Ed. Trost, B. M.; Pergamon, Oxford, 1069-1109	<input type="checkbox"/>
39	PALVA, I et al., "Secretion of interferon by Bacillus subtilis," Gene. 1983 May-Jun;22(2-3):229-35	<input type="checkbox"/>
40	PARK, JW, et al., "Development of anti-p185HER2 immunoliposomes for cancer therapy," Proc Natl Acad Sci U S A. 1995 Feb 28;92(5):1327-31	<input type="checkbox"/>
41	PARK, JW, et al., "Anti-HER2 immunoliposomes: enhanced efficacy attributable to targeted delivery," Clin Cancer Res. 2002 Apr;8(4):1172-81	<input type="checkbox"/>
42	PATNAIK, R. and JR Swartz, "E. coli-based in vitro transcription/translation: in vivo-specific synthesis rates and high yields in a batch system," Biotechniques. 1998 May;24(5):862-8	<input type="checkbox"/>
43	PEARSON, WR and DJ Lipman, "Improved tools for biological sequence comparison," Proc Natl Acad Sci U S A. 1988 Apr;85(8):2444-8	<input type="checkbox"/>
44	PEPINSKY, RB., et al., "Improved pharmacokinetic properties of a polyethylene glycol-modified form of interferon-beta-1a with preserved in vitro bioactivity," J Pharmacol Exp Ther. 2001 Jun;297(3):1059-66	<input type="checkbox"/>

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.S./

Application Number 10587371

Filing Date 2006-07-26

First Named Inventor Ho Sung CHO

Art Unit 1647

Examiner Name Shulamith H. SHAFER

Attorney Docket Number AMBX-0028.00US

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

49	PICCIRILLI, JA et al., "Enzymatic incorporation of a new base pair into DNA and RNA extends the genetic alphabet," Nature 1990; 343:33 - 37	<input type="checkbox"/>
46	PINTAR, A et al. "CX, an algorithm that identifies protruding atoms in proteins," Bioinformatics. 2002 Jul;18(7):980-4	<input type="checkbox"/>
47	PITHA, J et al. "Detergents linked to polysaccharides: preparation and effects on membranes and cells," Eur J Biochem. 1979 Feb 15;94(1):11-8	<input type="checkbox"/>
48	POLGAR, L. and ML Bender. "A new enzyme containing a synthetically formed active site. Thiol-subtilisin." J. Am Chem Soc., 1966; 88(13): 3153-3154	<input type="checkbox"/>
49	POLLACK, SJ et al. "Introduction of nucleophiles and spectroscopic probes into antibody combining sites," Science. 1988 Nov 18;242(4881):1038-40	<input type="checkbox"/>
50	PRENETA, AZ. "Separation on the basis of size: gel permeation chromatography," in Protein Purification Methods, a practical approach, 1989; Eds. Harris & Angal; IRL Press, Oxford; 293-306	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button **EXAMINER SIGNATURE**

Examiner Signature	/Shulamith Shafer/	Date Considered	11/22/2009
--------------------	--------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.